

# **TESTING REQUIREMENTS**

## **SP0600-07-R-0502**

### **ATTACHMENT 2**

THE FOLLOWING ARE THE MINIMUM REQUIREMENTS FOR STORAGE SAMPLING AND TESTING. SUBJECT TO THE QUALITY REPRESENTATIVE (QR) APPROVAL, ADDITIONAL SAMPLING AND TESTING SHALL BE INCORPORATED INTO THE CONTRACTOR'S QUALITY CONTROL PLAN BASED ON THE LOCAL RECEIVING, STORING, AND ISSUING PROCESS AT THE FACILITY. THE GOVERNMENT'S QR MAY REQUEST ADDITIONAL TESTING BASED ON CIRCUMSTANCES AFFECTING A PARTICULAR SAMPLE.

TESTING REQUIREMENTS:

MIL-DTL-5624 (*Latest Version*),  
GRADE **JP-5**

LOCATION OF STOCK	TESTS
1. <b>Vessel: Prior to Discharge - or - After Loading</b> All level sample from <b>each cargo tank</b> on vessel prior to discharge or after loading. (See Notes 1, 2, & 3, below)	a) Workmanship b) Color, Visual c) API Gravity or Density
2. <b>Vessel: Prior to Discharge - or - After Loading</b> Composite Samples (See Notes 1, 2, & 3, below)	a) Workmanship b) Color, Visual c) API Gravity or Density d) Flash Point e) Particulate Matter f) Distillation g) Copper Strip Corrosion h) Freezing Point i) Existent Gum j) Water Reaction k) Fuel Systems Icing Inhibitor

**NOTE 1:** Vessel (Tanker / Barge) Composite Samples **prior to Discharge:**

(1) For Multi-Product Cargoes: Discharge of product may commence after conformance with tests **a) through d)**, above. The balance of tests will be completed in a timely manner prior to or during the discharge.

(2) For Single-Product Cargoes: Discharge of product may commence after conformance with tests **a) through d)**, above. The remaining sample volume shall be retained(\*), and the balance of tests will be performed on the retained sample if receiving storage tanks are found to be off-specification.

**NOTE 2:** Tanker/Barge Composite Samples after loading:

The vessel may sail after completion of tests **a) through d)**, above. The balance of tests will be completed **prior to** vessel arrival at destination.

**NOTE 3:**

A composite line sample (10 liters) will be taken - proportionately - over the entire loading. The composite sample shall be retained (\*).

(\*) *Retain samples shall be held in accordance with Clause E28, Contractor Inspection Responsibilities.*

LOCATION OF STOCK	TESTS
3. <b>Line: Shipments and Receipts:</b>	
a. Immediately after the start of a shipment or receipt:	a) Workmanship b) Color, Visual c) API Gravity or Density d) Flash Point
b. A one-half quart or liter will be taken during shipment or receipt, beginning one half-hour after the start, and then hourly thereafter. Samples to be composited after completion of the discharge.	a) Workmanship b) Color, Visual then Retained as a Composite.
c. A one-gallon <b>line sample</b> will be taken one hour after start, midpoint, and one hour prior to completion of the discharge.	g) Particulate Contamination on each sample.
4. For <b>split cargo discharges</b> - where the other other product is JP-4, AVGAS, or MOGAS: each sample a dock header sample will be taken during the JP-5 discharge one half-hour after the start of discharge and hourly thereafter.	d) Flash Point on
5. <b>Storage Tanks</b> , after receipt: An upper/middle/lower shore tank or an All-level sample shall be taken from each storage tank.	Same as Paragraph 2 above, plus: l) Thermal Stability - taken after tanker or multi-product pipeline shipments carrying fertilizer as one of the products
6. <b>Tank Trucks/Tank Cars:</b> Composite sample of loaded tank trucks/tank cars.	Same as Paragraph 3.a. above.
7. <b>Interface Mixtures</b> from pipeline for Injection for blending purposes.	Same as Paragraph 2 above.
9. <b>Dormant Stocks</b> (Tanks that do not receive fuel from an outside source in the previous six months). Composite Upper/Middle/Lower or an All-Level Sample from each storage tank.	a) Workmanship b) Color, Visual c) API Gravity or Density d) Flash Point e) Particulate Matter f) Distillation g) Copper Strip Corrosion h) Freezing Point i) Existent Gum j) Water Reaction k) Fuel Systems Icing Inhibitor l) Thermal Stability m) Color, Saybolt n) Acid Number

LOCATION OF STOCK	TESTS
10. <b>Individual Tests</b> as directed by the cognizant Quality Office.	Any Test identified in Paragraph 9, <b>plus</b> : <ul style="list-style-type: none"><li>o) Aromatics</li><li>p) Sulfur, Total</li><li>q) Mercaptan Sulfur / Doctor Test</li><li>r) Hydrogen Content</li><li>s) Smoke Point</li><li>t) Heating Value: Net Heat of Combustion</li><li>u) Viscosity at -20°C</li><li>v) Filtration Time</li><li>w) Calculated Cetane Index</li><li>x) Microseparometer Rating</li><li>y) Sulfides in Water (Clause E34)</li></ul>

ALL TEST METHODS TO BE AS SPECIFIED IN SPECIFICATION MIL-DTL-5624 (LATEST REVISION), GRADE JP-5, EXCEPT FOR SULFIDES IN WATER WHICH SHALL BE PERFORMED IN ACCORDANCE WITH CLAUSE E34 (*TESTS FOR SULFIDES IN WATER*).